WHAT IS CLAIMED IS:

- 1. A native vegetable protein product which is highly soluble in water and forms a gel with mild heat treatment.
- 2. The native protein product according to claim 1, wherein the product is derived from soy; is low in viscosity; is highly soluble in water; and forms a gel with mild heat treatment which is not diminished when salt is added.
- 3. The native protein product according to claim 1, which forms a gel at a temperature of between about 60° C and about 105° C.
- 4. The native protein product according to claim 1, which forms a gel at a temperature of between about 70° C and about 90° C.
- 5. The native protein product according to claim 1, wherein the nitrogen solubility index is between about 50% and about 100%.
- 6. The native protein product according to claim 1, wherein the nitrogen solubility index is between about 70% and about 100%.
- 7. The native protein product according to claim 1, wherein the nitrogen solubility index is about 90%.
- 8. The native protein product according to claim 1, wherein the soluble sugar content is between about 6% and about 20%.
- 9. The native protein product according to claim 1, wherein the protein content is between about 60% and about 85% of dry solids.
- 10. The native protein product according to claim 1, wherein the protein content is between about 65% and about 82% of dry solids.
- 11. The native protein product according to claim 1, wherein the viscosity of a 10% dispersion is less than about 50 centipoise.
- 12. The native protein product according to claim 1, wherein the viscosity of a 10% dispersion is less than about 30 centipoise.
- 13. A process for obtaining a vegetable native protein product which is highly soluble and forms a gel upon mild heat treatment, comprising the steps of:

dispersing a protein material in water around neutral pH to pH 8.3; extracting the dispersion;

removing the insoluble fraction;

lowering the pH of the supernatant fraction to between about 7.5 and about 5.0;

neutralizing; treating the product; cooling; and spray drying.

- 14. The process according to claim 13, wherein the protein material is soy flakes.
- 15. The process according to claim 14, comprising the steps of:

dispersing soy white flakes with high PDI in water about neutral pH to pH 8.0; extracting for approximately 30 min. at 30° C; centrifuging the dispersion to remove the insoluble fraction; lowering the pH of the supernatant fraction to 5.0 for 10 min.; neutralizing; treating in a jet cooker at 140° C for 3 sec.; flash cooling to 60° C; and

flash cooling to 60° C; and

spray drying.

The process for obtaining a soy native protein product according to claim 13, comprising the steps of:

dispersing soy white flakes with high PDI (85% or higher) a solids content of approximately 12% (w/w) at about neutral pH to about pH 8.5, preferably about neutral pH to about pH 8.0, in water;

extracting for approximately 30 min at 30° C;

centrifuging in order to remove the insoluble fraction, leaving only about 0.5% sedimentable material in the supernatant fraction;

lowering the pH to 5.0 for 10 min. with HCl and neutralizing with NaOH; heat treating the suvernatant in a jet cooker at 140° C for 3 sec.; flash cooling to 60° C; and spray drying.

- 17. A meat brine comprising between about 1% and about 20% of the native protein product of claim 1.
- 18. A meat piece injected with the brine of claim 17 at extension levels from about 2% to about 100%.

- 19. A vegetarian meat analog product comprising between about 1% and about 20% of the native protein product of claim 13.
- 20. A vegetarian emulsion meat analog product comprising between about 1% and about 20% of the native protein content of claim 13, wherein said product is an emulsion which includes fat therein.
- 21. The vegetarian emulsion meat analog product of claim 20, wherein said product is an emulsion comprising between about 1% and about 10% fat.